L Number	Hits	Search Text	DB	Time stamp
2	107	photodielectric photo-dielectric photo adj	USPAT;	2002/07/11 10:44
		dielectric	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
3	238948	photosensitive photo-sensitive photo adj	IBM_TDB USPAT;	2002/07/11 10:45
	230340	sensitive	US-PGPUB;	2002,01,11 10.10
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
4	352	photoimagable photo-imagable photo adj	USPAT;	2002/07/11 10:45
		imagable	US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM TDB	
5	86	photoformable photo-formable photo adj	USPAT;	2002/07/11 10:45
-		formable	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	005		IBM_TDB	0000/07/11 10 16
6	235	photopatternable photo-patternable photo	USPAT;	2002/07/11 10:46
		adj patternable	US-PGPUB; EPO; JPO;	
]			DERWENT;	
			IBM TDB	
7	63748	pin adj hole pinhole pin-hole	USPAT;	2002/07/11 10:47
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
8	1294	((photosensitive photo-sensitive photo adj	IBM_TDB USPAT;	2002/07/11 10:47
0	1294	sensitive   (photoimagable photo-imagable	US-PGPUB;	2002/07/11 10:47
		photo adj imagable) (photoformable	EPO; JPO;	
		photo-formable photo adj formable)	DERWENT;	
		(photopatternable photo-patternable photo	IBM_TDB	
		adj patternable)) near3 dielectric		
9	1379	,	USPAT;	2002/07/11 10:47
		adj dielectric) (((photosensitive photo-sensitive photo adj sensitive)	US-PGPUB; EPO; JPO;	
		(photo-sensitive photo-imagable photo adj	DERWENT;	
		imagable) (photoformable photo-formable	IBM TDB	
		photo adj formable) (photopatternable		
		<pre>photo-patternable photo adj patternable))</pre>		
	_	near3 dielectric)		
10	73	((photodielectric photo-dielectric photo	USPAT;	2002/07/11 10:48
		adj dielectric) (((photosensitive	US-PGPUB;	
		photo-sensitive photo adj sensitive)   (photoimagable photo-imagable photo adj	EPO; JPO; DERWENT;	
		imagable   imagable photo-imagable photo adj	IBM TDB	
		photo adj formable) (photopatternable	-2100	
		photo-patternable photo adj patternable))		
		near3 dielectric) ) near3 (first! or		
	<b>-</b> -	bottom! or lower!)		
11	85	((photodielectric photo-dielectric photo	USPAT;	2002/07/11 10:49
		adj dielectric) (((photosensitive   photo-sensitive photo adj sensitive)	US-PGPUB;	
		(photoimagable photo-imagable photo adj	EPO; JPO; DERWENT;	
		imagable) (photoformable photo-formable	IBM TDB	!
		photo adj formable) (photopatternable		
		photo-patternable photo adj patternable))		
		near3 dielectric) ) near3 (second! or top!		
		or upper!)		

1	139	BHATT-ASHWINKUMAR-Cin.	USPAT;	2002/07/11 10:53
1	139	BHATT-ASHWINKUMAR-CHINUPRASADin.	US-PGPUB;	2002/07/11 10:55
		BHATT-A-Cin. CAMP-JOHNin.	EPO; JPO;	
		CAMP-JOHN-Cin.	DERWENT;	
		CAMP-JOHN-CHRISTOPHERin. CAMP-J-Cin.	IBM_TDB	
		FLETCHER-MARY-BETHin. FLETCHER-M-Bin.		
		POTTER-KENNETH-Lin. POTTER-K-Lin.		
	İ	WELSH-JOHN-Ain. WELSH-JOHNin.		
		WELSH-JOHN-ANDREWin. WELSH-J-Ain.		
12	44	' ' 'E E	USPAT;	2002/07/11 10:53
	'	adj dielectric) (((photosensitive	US-PGPUB;	
	İ	photo-sensitive photo adj sensitive)   (photoimagable photo-imagable photo adj	EPO; JPO; DERWENT;	
		imagable   imagable	IBM TDB	
		photo adj formáble) (photopatternable	1211_122	
		photo-patternable photo adj patternable))		
		near3 dielectric) ) near3 (first! or		
		bottom! or lower!)) and (((photodielectric	İ	
		photo-dielectric photo adj dielectric)		
		(((photosensitive photo-sensitive photo		
		adj sensitive) (photoimagable		
		photo-imagable photo adj imagable)		
		(photoformable photo-formable photo adj		
		formable) (photopatternable		
		photo-patternable photo adj patternable))		
		<pre>near3 dielectric) ) near3 (second! or top!   or upper!))</pre>		
13	6	((((photodielectric photo-dielectric photo	USPAT;	2002/07/11 10:56
15		adj dielectric) (((photosensitive	US-PGPUB;	2002,01,11 10.30
		photo-sensitive photo adj sensitive)	EPO; JPO;	
		(photoimagable photo-imagable photo adj	DERWENT;	
		imagable) (photoformable photo-formable	IBM_TDB	
		photo adj formable) (photopatternable	_	
		<pre>photo-patternable photo adj patternable))</pre>		1
		near3 dielectric) ) near3 (first! or		
		bottom! or lower!)) and (((photodielectric		1
		photo-dielectric photo adj dielectric)		
		(((photosensitive photo-sensitive photo		
		adj sensitive) (photoimagable photo-imagable photo adj imagable)		
		(photoformable photo-formable photo adj		
		formable) (photopatternable		
	1	photo-patternable photo adj patternable))		
		near3 dielectric) ) near3 (second! or top!		
		or upper!))) and (pin adj hole pinhole	1	
		pin-hole)		
14	36	((((photodielectric photo-dielectric photo	USPAT;	2002/07/11 11:02
		adj dielectric) (((photosensitive	US-PGPUB;	
		photo-sensitive photo adj sensitive)	EPO; JPO;	
		(photoimagable photo-imagable photo adj	DERWENT;	
		imagable) (photoformable photo-formable photo adj formable) (photopatternable	IBM_TDB	
		photo adj formable		
		near3 dielectric) ) near3 (first! or		
		bottom! or lower!)) and (((photodielectric	1	
		photo-dielectric photo adj dielectric)		1
		(((photosensitive photo-sensitive photo		
		adj sensitive) (photoimagable		
		photo-imagable photo adj imagable)		
		(photoformable photo-formable photo adj		
		formable) (photopatternable		
		photo-patternable photo adj patternable))		
		<pre>near3 dielectric) ) near3 (second! or top! or upper!))) and (opening hole defect</pre>		
		perforation)	1	
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			LICENTE.	1 2002 /07 /11 11	
16	5	(((((photodielectric photo-dielectric	USPAT;	2002/07/11 11:	:04
		photo adj dielectric) (((photosensitive	US-PGPUB;		
		photo-sensitive photo adj sensitive)	EPO; JPO;		
		(photoimagable photo-imagable photo adj	DERWENT;		
		imagable) (photoformable photo-formable	IBM_TDB		
		photo adj formable) (photopatternable			
		<pre>photo-patternable photo adj patternable))</pre>			
		near3 dielectric) ) near3 (second! or top!			
		or upper!)) (((photodielectric			
		photo-dielectric photo adj dielectric)			
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		adj sensitive) (photoimagable			
		photo-imagable photo adj imagable)			
		(photoformable photo-formable photo adj			
		formable) (photopatternable			
		photo-patternable photo adj patternable))			
		near3 dielectric) ) near3 (first! or			
		bottom! or lower!))) and ((pin adj hole			
		pinhole pin-hole))) NOT			
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		((((((photodielectric photo-dielectric			
		photo adj dielectric) (((photosensitive			
		photo-sensitive photo adj sensitive)			
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		imagable) (photoformable photo-formable			
		photo adj formable) (photopatternable			
		<pre>photo-patternable photo adj patternable))</pre>			
		near3 dielectric) ) near3 (first! or			
		bottom! or lower!)) and (((photodielectric			
		photo-dielectric photo adj dielectric)			
		(((photosensitive photo-sensitive photo			
		adj sensitive) (photoimagable			
		photo-imagable photo adj imagable)			
	•	(photoformable photo-formable photo adj			
		formable) (photopatternable	ĺ		
		photo-patternable photo adj patternable))			
	•	near3 dielectric) ) near3 (second! or top!			
İ		or upper!))) and (pin adj hole pinhole			
		pin-hole)) (((((photodielectric			
		photo-dielectric photo adj dielectric)			
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		adj sensitive) (photoimagable	1		
		photo-imagable photo adj imagable)			
		(photoformable photo-formable photo adj			
		formable) (photopatternable			
		<pre>photo-patternable photo adj patternable))</pre>			
		near3 dielectric) ) near3 (first! or			
		bottom! or lower!)) and (((photodielectric			
		photo-dielectric photo adj dielectric)			
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		adj sensitive) (photoimagable			
		photo-imagable photo adj imagable)	1		
		(photoformable photo-formable photo adj			
		formable) (photopatternable			
		photo-patternable photo adj patternable))			
		near3 dielectric) ) near3 (second! or top!	1		
		or upper!))) and (opening hole defect			
		perforation)))			
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17 43	(((((photodielectric photo-dielectric	USPAT;	2002/07/11 11:11
17	photo adj dielectric) (((photosensitive	US-PGPUB;	2002/07/11 11.11
	photo-sensitive photo adj sensitive)	EPO; JPO;	
	(photoimagable photo-imagable photo adj	DERWENT;	
	imagable) (photoformable photo-formable	IBM_TDB	
	photo adj formable) (photopatternable		
	photo-patternable photo adj patternable))		
	<pre>near3 dielectric) ) near3 (second! or top! or upper!)) (((photodielectric</pre>		
	photo-dielectric photo adj dielectric)		
	(((photosensitive photo-sensitive photo		
	adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)		
	(photoformable photo-formable photo adj		
	formable) (photopatternable   photo-patternable photo adj patternable))		
	near3 dielectric) ) near3 (first! or		
	bottom! or lower!))) and (opening hole		
	defect perforation)) NOT		
	((((((photodielectric photo-dielectric		
	photo adj dielectric) (((photosensitive		
	photo-sensitive photo adj sensitive)		
	(photoimagable photo-imagable photo adj imagable) (photoformable photo-formable		
	photo adj formable) (photopatternable		
	photo-patternable photo adj patternable))		
	near3 dielectric) ) near3 (first! or		
	bottom! or lower!)) and (((photodielectric		
	photo-dielectric photo adj dielectric)		
	(((photosensitive photo-sensitive photo adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)		
	(photoformable photo-formable photo adj		
	formable) (photopatternable		
	<pre>photo-patternable photo adj patternable))</pre>		
	near3 dielectric) ) near3 (second! or top!		
	or upper!))) and (pin adj hole pinhole pin-hole)) ((((photodielectric	:	
	photo-dielectric photo adj dielectric)		
	(((photosensitive photo-sensitive photo		
	adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)		
İ	(photoformable photo-formable photo adj		
	formable) (photopatternable   photo-patternable photo adj patternable))		
†	near3 dielectric) ) near3 (first! or		
	bottom! or lower!)) and (((photodielectric		
	photo-dielectric photo adj dielectric)		
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	adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)   (photoformable photo-formable photo adj		
	formable) (photopatternable		
	photo-patternable photo adj patternable))		
	near3 dielectric) ) near3 (second! or top!		
	or upper!))) and (opening hole defect		
	<pre>perforation)) (((((photodielectric photo-dielectric photo adj dielectric)</pre>		
	(((photosensitive photo-sensitive photo		
	adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)		
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	formable) (photopatternable	1	
	<pre>photo-patternable photo adj patternable)) near3 dielectric) ) near3 (second! or top!</pre>	1	
	or upper!)) (((photodielectric		
	photo-dielectric photo adj dielectric)		
	(((photosensitive photo-sensitive photo		
	adj sensitive) (photoimagable		
	photo-imagable photo adj imagable)		
	(photoformable photo-formable photo adj formable) (photopatternable		
Search History 7	photo-patternable photogad; patternable))		
C:\APPS\east\worksp	resalvente process and patternation of pattern		
	bottom! or lower!))) and ((pin adj hole		
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23	9 (((photodielectric photo-dielectric photo adj dielectric) (((photosensitive photo-sensitive) photo-sensitive photo adj sensitive) (photoimagable photo-imagable photo adj imagable) (photoformable photo-formable photo adj formable) (photopatternable photo-patternable photo adj patternable)) near3 dielectric) ) with (two! double! bilayer\$2 bi-layer\$2 bi adj layer\$2)) and ((pin adj hole pinhole pin-hole) defect perforation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/11 11:15
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1			Lucana	12002/07/11 11:16
photo-sensitive photo adj sensitive) (photoimagable photo-imagable photo adj imagable) (photoformable) photoe photo adj formable) photo adj formable) (photoformable) photoe adj formable) (photo-formable) pinhole pin-hole) (defect perforation) Not ((((((photodielectric photo-dielectric) photo adj dielectric) (((photodiesestrive photo-sensitive photo adj sensitive) photo-sensitive photo adj sensitive) photo-patternable photo-formable photo-patternable photo-dielectric photo adj formable) (photopatternable photo-patternable) photo-patternable photo adj patternable) near3 dielectric) near3 (first) or bottom or lower1) and (((photodielectric) dielectric photo adj impagable) (photoformable photoe) photoe adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj formable) (photoformable) photo adj photo-patternable photo adj sensitive) (photoformable) photo-patternable) photo-patternable photo adj dielectric) (((photosensitive) photo-adj dielectric) (((photosensitive) photo-adj dielectric) (((photosensitive) photo-adj dielectric) (((photoformable) photo-photo	22	39 (((photodielectric photo-dielectric photo	USPAT;	2002/07/11 11:16
(photoimagable photo-imagable photo adj imagable) (photofromable photo-formable) photo-formable) photo-patternable) photo-patternable photo-patternable) means disclosed to the photo-patternable photo-patternable photo-patternable) means disclosed to the photo-patternable photo-patternable photo-patternable photo-patternable photo-disclosed to the photo-sensitive photo-sensitive photo-sensitive photo-disclosed to the photo-patternable photo adj disagable (photoformable photo-formable photo-patternable photo adj formable) (photopatternable photo-patternable photo-patternable) means disclosed to the photo-patternable ph	į į			
imagable) (photoformable photo-formable photo add formable) (photopatternable) photo-patternable photo add patternable) near3 delectric)   same (pin add hole pinhole) pathole) defect perforation) NOT photo add delectric)   same (pin add hole pinhole) pinhole pinhole) defect perforation) NOT photo add delectric; ((photosomsitive photo-sensitive) photo-sensitive photo-add delectric; ((photosomsitive) photo-sensitive) photo-add formable photo-add formable photo-add formable photo-add formable photo-patternable photo-patternable photo-add delectric photo-add delec		1 *		1
photo adj formable) (photopatternable) photo-patternable) photo adj patternable) near3 dielectric) )) same ((pin adj hole pinhole pin-hole) defect perforation) NOT (((((photodelectric) photo-desentic photo-sensitive photo adj sensitive) (photoimagable photo-adj sensitive) (photoimagable photo-adj sensitive) (photo-patternable) (photopatternable) photo-patternable) photo adj patternable)) near3 dielectric) near3 (first! or bottom! or lower!)) and ((photopatternable) near3 dielectric) photo-formable photo adj adj sensitive) (photoimagable) photo-imagable photo adj dielectric) (photoformable photo adj imagable) (photoformable photo-formable) near3 dielectric) photo-formable photo adj formable) (photopatternable) photo-patternable) photo-patternable photo adj patternable)) near3 dielectric) photo-dielectric photo adj formable) (photopatternable) photo-patternable photo adj patternable) near3 dielectric; photo-dielectric photo adj protolectric photo adj dielectric) (((photosensitive) photo-sensitive photo adj sensitive) (photoimagable) (photo-formable photo adj imagable) ((photoformable photo adj imagable) (photo-imagable photo adj imagable) (photo-imagable photo adj imagable) (photo-imagable photo adj imagable) (photo-imagable photo adj imagable) (photo-patternable) photo-patternable photo adj imagable) (photo-patternable photo adj imagable) (photo-patternable photo adj imagable) (photo-patternable photo adj imagable) photo-imagable photo-formable photo adj sensitive) (photoimagable photo-imagable photo adj imagable) (photoformable photo adj imagable) (photoformable photo adj imagable) (photo-dielectric photo adj dielectric) (((photosensitive) photo-sensitive photo adj sensitive) (photoimagable photo-imagable photo-formable photo adj formable) (photopatternable) photo-imagable photo-formable photo adj formable) (photoformable photo adj formable) (photoformable photo adj formable) (photoformable photo adj formable) (photoformable photo-sensitive photo adj sensitive) (photoimagable photo-imagable photo-formable photo			1	
iphoto-patternable photo adj patternable) near3 dielectric) )) same ([nin adj hole pinhole pinhole) defect perforation)) NOT ((((([photodielectric] (nincodielectric) photo adj dielectric)) ((([photodielectric] photo adj dielectric)) ((([photodielectric] (([photodienajable photo-imagable photo adj imagable) ([photoformable photo-formable photo adj formable) ([photodielectric] photo-patternable) photo-patternable photo-formable photo-patternable) near3 dielectric) near3 ([irst] or bottom! or lower!)) and (([photodielectric) ((photosenstice photo-osonable photo adj jensitive) ([photoimagable photo-imagable photo adj imagable) ([photoformable photo adj imagable) ([photoformable photo-formable photo adj or imagable photo-patternable photo-patternable) near3 dielectric) near3 (second or topl or impable) ([(([photodielectric photo-dielectric photo adj dielectric) ((([photosenstitive photo-sensitive photo adj sensitive) ([photoimagable photo-imagable photo-sensitive photo adj sensitive) ([photoimagable photo-formable photo adj imagable) ([photoformable photo-formable) photo adj formable) ([photoformable]) photo-imagable photo adj imagable) ([photoformable] photo-formable) photo adj formable) ([photoformable]) near3 dielectric) near3 (sirst) or bottom! or lower!)) and ((([photodielectric) ((([photosensitive photo-sensitive photo adj sensitive) ([photomiagable) photo-patternable) photo-patternable photo adj imagable) ([photosensitive photo-sensitive photo adj sensitive) ([photomiagable) photo-patternable photo adj patternable) near3 dielectric) near3 (second) or topl or upper!)) and (opening hole defect perforation)) (((([photodielectric photo-dielectric photo adj patternable)) near3 dielectric) ((([photodielectric photo-dielectric photo adj patternable)) near3 dielectric) near3 (second) or topl or upper!)) and (opening hole defect perforation)) ((((([photodielectric) (((([photosensitive photo-sensitive photo adj sensitive) ([photomiagable) photo-patternable photo adj imagable) ([photoformable photo adj patternable)) nea			IBM_TDB	
near3 dielectric)   ) same ((pin adj hole pinhole pinhole defect perforation) NOT ((((((photodielectric photo-dielectric photo-adj dielectric) (((photosensitive photo-adj dielectric)) ((photosensitive photo-adj dielectric) ((photosensitive photo-adj dielectric) ((photosensitive photo-adj dielectric) (photo-patternable) (photo-patternable) photo-adj patternable) (photo-patternable) near3 dielectric)   near3 (first! or bottom! or lower!) and (((photodielectric photo-dielectric photo-adj dielectric) (((photosensitive) (photofensable) photo-adj dielectric) (((photosensitive) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photofensable) (photogensable) (photogenternable) (photofensable) (photogenternable) (photogensable) (photofensable) (photogensable) (photogensable) (photogensable) (photogensable) (photogensable) (photogensable) (photogensable) (photogensable)				
pinhole pin-hole) defect perforation) NOT (((((photodielectric photo-dielectric photo-ad) dielectric) (((photosensitive photo-ad) sensitive) ((photosensitive) photo ad) sensitive) ((photosensitie) photo-imagable photo-dielectric) ((photosensitie) photo-ad) perternable ((photosensitie) photo-ad) perternable) ((photosensitive photo-ad) dielectric) (((photosensitive photo-sensitive photo-ad) (((photosensitive photo-sensitive photo-ad) (((photosensitive photo-sensitive) (((photosensitive) photo-ad) photo-ad) (((photosensitive) photo-ad) ((photosensitive) photo-ad) (((photosensitive) photo-ad) ((((photosensitive) photo-ad) (((photosensitive) photo-ad) ((((photosensitive) photo-ad) (((((photosensitive) photo-ad) (((((photosensitive) photo-ad) (((((photosensitive) photo-ad) (((((photosensitive) photo-ad) ((((((photosensitive) photo-ad) (((((((photosensitive) photo-ad) ((((((((((((((((((((((((((((((((((((	į	photo-patternable photo adj patternable))		ļ
(((((photosensitive photo-adj sensitive)   photo-sensitive photo-sensitive photo-adj sensitive)   (photofungable) photo-imagable photo-imagable) photo-formable photo-formable photo-formable photo-formable photo-formable photo-formable photo-sensitive photo-sensitive photo-sensitive photo-sensitive photo-sensitive photo-sensitive photo-sensitive photo-adj dielectric)   ((photosensitive) (photoimagable)   (photofungable)		near3 dielectric) )) same ((pin adj hole	1	
photo-asmitive photo adj sansitive) (photoimagable photo-imagable photo adj imagable) (photoformable photo-formable) photo-adj formable) (photopatternable) photo-patternable photo adj patternable)) mear3 dielectric)   mear3 (first) or bottomi or lower1) end (first) or bottomi or lower1) end (first) or (((photosensitive photo-sensitive photo adj sensitive) (photoimagable) photo-imagable photo adj imagable) (photoformable photo-formable photo adj formable) (photopatternable photo-patternable photo adj patternable)) near3 dielectric)   mear3 (second) or top! or upper!)) and (pin adj hole pinhole pin-hole)) ((((photodelectric photo-ordelectric photo adj delectric) (((photosensitive photo-sensitive photo adj sensitive) (photoimagable) photo-patternable photo adj patternable) photo-patternable photo adj below (((photosensitive photo-sensitive photo adj sensitive) (photoimagable) photo-patternable photo-formable photo adj formable) (photopatternable) photo-patternable photo-formable photo adj formable) (photopatternable) photo-patternable photo adj patternable) photo-patternable photo adj patternable) near3 dielectric)   near3 (first) or bottom! or lower!)) and (((photodelectric photo-delectric photo adj dielectric) (((photosensitive photo-sensitive photo adj sensitive) (photoimagable) photo-imagable photo adj imagable) (photoformable photo adj imagable) (photoformable photo adj patternable)) photo-patternable photo adj patternable) photo-patternable photo adj patternable) photo-patternable photo adj patternable) photo-delectric photo adj delectric) (((photosensitive) photo-sensitive photo adj sensitive) (photoimagable photo-imagable photo-formable photo adj formable) (photopatternable photo-imagable photo adj patternable)) near3 dielectric) ((((((((((((((((((((((((((((((((((((		pinhole pin-hole) defect perforation)) NOT	ı	
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DISCLOSURE TITLE: Double Exposure of Photo-Sensitive

Insulator for Pin-Hole

Elimination

PUBLICATION-DATA: IBM Technical Disclosure Bulletin,

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CROSS REFERENCE: 0018-8689-37-2A-433

DISCLOSURE TEXT:

Disclosed is an exposure method for reducing defects of  $\ensuremath{\mathsf{PCB}}$ 

(Printed Circuit Board) with photo via holes formed by

negative-type photo-sensitive dielectric. For negative type

photo-sensitive dielectric, contamination at exposed regions causes

defects such as pin-holes. Such defects can be solved by double

exposure with different masks.

- In a photo process in which a negative-type photo-sensitive

insulator is used to define vias, contamination on the mask, mask

cover film or other parts which lie in the light path results in the

formation of pin-holes in the insulator. These pin-holes become

serious defects from the point of reliability and electrical

performance.

The defects caused by such contamination can be

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eliminated by

double exposure which comprises a first step for exposing the

insulator with a normal mask with original via size and a second step

for exposing the insulator with the mask with larger via size. The

order of these two masks being used can be reversed.

- The probability that different contaminations hit the same

. location is negligible and thus the pin-holes can be eliminated

effectively by exposing the insulator twice with the different masks.

- The reason why the two masks should have different via sizes is

from the tolerance of mask positioning. The second mask has to have

larger via size to maintain the via size formed by the first mask.

- This method is applicable for any negative photo-sensitive

polymers, for example, etching resist, pattern plating resist and so on.

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